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1. Document ID: US 6535925 B1

L2: Entry 1 of 2

File: USPT

Mar 18, 2003

US-PAT-NO: 6535925

DOCUMENT-IDENTIFIER: US 6535925 B1

TITLE: Packet header compression using division remainders

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Svanbro; Krister	Lulea			SE
Einarsson; Torbjorn	Stockholm			SE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Telefonaktiebolaget L M Ericsson (publ)				SE	03

APPL-NO: 09/ 671756 [PALM]

DATE FILED: September 26, 2000

PARENT-CASE:

CROSS-REFERENCES TO RELATED APPLICATIONS This Application for Patent claims the benefit of priority from, and hereby incorporates by reference the entire disclosure of, co-pending U.S. Provisional Application for Patent Serial No. 60/164,355, filed Nov. 9, 1999.

INT-CL: [07] G06 F 15/16

US-CL-ISSUED: 709/247; 709/216, 709/217, 341/60, 370/393, 370/465, 370/474

US-CL-CURRENT: 709/247; 341/60, 370/393, 370/465, 370/474, 709/216, 709/217

FIELD-OF-SEARCH: 341/50-109, 370/389, 370/465, 370/466, 370/474, 370/477, 370/392, 370/395, 370/409, 370/405, 370/393, 707/101, 707/105, 709/247, 709/216, 709/217

PRIOR-ART-DISCLOSED:**U.S. PATENT DOCUMENTS**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5144623</u>	September 1992	Bernardini	370/94.1
<u>5293379</u>	March 1994	Carr	370/94.1
<u>5345451</u>	September 1994	Uriu et al.	371/42
<u>5521940</u>	May 1996	Lane et al.	375/240
<u>5813011</u>	September 1998	Yoshida et al.	707/101
<u>5835730</u>	November 1998	Grossman et al.	709/247

<u>6032197</u>	February 2000	Birdwell et al.	709/247
<u>6292840</u>	September 2001	Blomfield-Brown et al.	709/247
<u>6317433</u>	November 2001	Galand et al.	370/395.2
<u>6385199</u>	May 2002	Yoshimura et al.	370/393

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
PCT/SE 00/02188	April 2001	EP	
WO 99/04522	January 1999	WO	
WO 00/49748	August 2000	WO	
WO 00/79762	December 2000	WO	

ART-UNIT: 2819

PRIMARY-EXAMINER: Tokar; Michael

ASSISTANT-EXAMINER: Nguyen; Linh V

ATTY-AGENT-FIRM: Jenkens & Gilchrist, A Professional Corporation

ABSTRACT:

The present invention is directed to providing a method and apparatus for efficiently compressing and reconstructing a header of a real time communication packet. In a header compressor, a header field value is applied to a modulo X operator which can, for example, divide the header field value by a value X, and output the remainder. Optionally, a checksum may be appended to the remainder. The header field value may be scaled prior to being applied to the modulo X operator. The compressed header field which is output from the header compressor includes the remainder with or without the checksum appended. A header decompressor includes a field reconstructor which reconstructs the received compressed header field in response to the remainder value and range information. The range information represents a range of possible field values which can be reconstructed from the received remainder value.

20 Claims, 17 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Drawl Desc	Image
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 2. Document ID: US 5864860 A

L2: Entry 2 of 2

File: USPT

Jan 26, 1999

US-PAT-NO: 5864860

DOCUMENT-IDENTIFIER: US 5864860 A

TITLE: Compression of structured data

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holmes; Keith	Waterloo			BE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY					02

APPL-NO: 08/ 723073 [PALM]
 DATE FILED: September 30, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9602550	February 8, 1996

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 707/101; 707/100, 395/888, 341/51

US-CL-CURRENT: 707/101; 341/51, 707/100, 710/68

FIELD-OF-SEARCH: 341/51, 395/888, 707/100, 707/101

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5179378</u>	January 1993	Ranganathan et al.	341/51
<u>5298895</u>	March 1994	Van Maren	341/51
<u>5325091</u>	June 1994	Kaplan et al.	341/51
<u>5389922</u>	February 1995	Seroussi et al.	341/51
<u>5455576</u>	October 1995	Clark, II et al.	341/50
<u>5525982</u>	June 1996	Cheng et al.	341/51
<u>5553283</u>	September 1996	Kaplan et al.	707/101
<u>5561421</u>	October 1996	Smith et al.	341/51
<u>5585793</u>	December 1996	Antoshenkov et al.	341/51
<u>5754847</u>	May 1998	Kaplan et al.	707/100
<u>5778255</u>	July 1998	Clark et al.	395/888

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
63-296147	February 1988	JP	

OTHER PUBLICATIONS

D.Richards, "Data Compression and Gray-Code Sorting", Information Processing Letters 22 (1986) 201--201, North-Holland, Apr. 17, 1986.
 Processing of Compressed Data Filed, IBM Technical Disclosure Bulletin, May 1974, pp. 1-3, (3958-3959).

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Rones; Charles L.

ATTY-AGENT-FIRM: Cameron, Douglas W.

ABSTRACT:

A system and method for compressing a data sequence having a plurality of records, where each record has a plurality of fields with each field being arranged to contain a data item. The system compares a data item in a current field of a current record with a data item of a corresponding field of a preceding record. If there is a match, the current data item is replaced by a token indicating the match.

11 Claims, 2 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KM/C	Draw Desc	Image
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Term	Documents
"6535925"	1
6535925S	0
(1 OR ("6535925".PN.)).USPT.	2
(L1 OR (6535925.PN.)).USPT.	2

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